

## ABSTRACT

A voltage detecting circuit and battery device using this circuit, when assembled in battery-mounted equipment, in which the battery thereof can be used with certainty until its usage limit are provided. The voltage detecting circuit 2 included in the battery device 1 comprises an input voltage comparing circuit 7 that compares the first threshold value voltage or second threshold value voltage lower than the first threshold value voltage with the input voltage  $V_{BAT}$  to control the opening and closing of the output switching element 13, and a threshold value voltage forcibly setting circuit 8 that compares a third threshold value voltage lower than the second threshold value voltage with the input voltage  $V_{BAT}$  and, when the input voltage changes from a low voltage to a high voltage and intersects the third threshold value voltage, outputs a pulse for a predetermined period thereafter so that the second threshold value is forcibly selected in the input voltage comparing circuit 7. As a result, when the input voltage  $V_{BAT}$  rises up from the ground potential, the second threshold value is compared with the input voltage  $V_{BAT}$  in the input voltage comparing circuit 7.